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Adaptive equalizers and methods for carrying out equalization with ...

An **adaptive equalizer** in a communication system having a precoder using **transmitter** coefficients for pre-equalizing the channel for post-cursor intersymbol ...

www.patentstorm.us/patents/6167082-description.html - 42k -

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Method and system for training adaptive channel equalization - US ...

The receiver has an **adaptive linear equalizer (FFE)**, while the **transmitter** has a feedback **equalizer** (of the TML type). During the training period, ...

www.patentstorm.us/patents/7203230-description.html - 42k -

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Feed forward equalizer invention

More particularly, the **adaptive equalizer** may comprise a least mean square (LMS)

adaptive tapped delay-line **FFE**. An **FFE** may be utilized in the front-end of ...

www.freshpatents.com/Feed-forward-equalizer-dt20060330ptan20060067542.php - 33k -

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Method and apparatus for implementing adaptive tomlinson-harashima ...

It has an **adaptive linear equalizer (FFE)** in the receiver 3 and a feedback **equalizer (TML)** in the **transmitter** 1. During training, this system too operates ...

www.freepatentsonline.com/20050129138.html - 36k - [Cached](#) - [Similar pages](#) - [Note this](#)

[PDF] Adaptive Equalizers Multipath Environment

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16-QAM Channel **Equalizer Transmitter**. • Constellation and eye diagram Coupling of **FFE** and DFE. **Adaptive Filters & Channel Equalizers** 46 ...

www.sdrforum.org/pages/sdr03/FPGA%20Signal%20Processing/adaptive_short_1.pdf -

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[PDF] A 10 Gb/s Adaptive Equalizer with Integrated Clock Data Recovery ...

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adaptive circuitry. illustrated with a 2-tap. **FFE**. and [-tap: DFE. Fig. 5. **Equalizer**

ineasurement. ICSI. set-up. 3. Fabrication and packaging ...

ieeexplore.ieee.org/iel5/9987/32092/01499756.pdf - [Similar pages](#) - [Note this](#)

[PDF] 26.7 - A BiCMOS 10Gb/s Adaptive Cable Equalizer - Solid-State ...

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feedforward **equalizer (FFE)**, which gives variable high-fre- **Transmitter** in Standard 0.18µm CMOS," ISSCC Dig. Tech. Papers, pp. 248-249, Feb. 2002. ...

ieeexplore.ieee.org/iel5/9264/29428/01332804.pdf - [Similar pages](#) - [Note this](#)

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[PDF] Microsoft PowerPoint - 05-342r0 SAS-2 Adaptive Equalizer Phy Layer ...

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Transmitter De-emphasis and Receive Equalization (**FFE/DFE**) enhance the **Adaptive equalizer** are included in other Multi-Gbps standards (OIF and IEEE). ...

www.t10.org/ftp/t10/document.05/05-342r0.pdf - [Similar pages](#) - [Note this](#)

[PDF] [Fiber Equalization](#)

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Analog Transversal Filter **Equalizer**. • Analog FFE/DFE implementation for ... equalization.

Adaptive receiver. equalization. **Adaptive. (transmitter)** ...

www.ieee802.org/3/ae/public/sep00/phanse_1_0900.pdf - [Similar pages](#) - [Note this](#)

[PDF] [Balanced equalization: The 10GBASE-KX4 formula for error-free ...](#)

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Equalizer (FFE) in the **transmitter** (with. feedbacks from the receiver), while sim- ... lution

PE filter and an **adaptive** receiver. **equalizer** that can be ...

www.embedded-computing.com/pdfs/Mysticom.Mar05.pdf - [Similar pages](#) - [Note this](#)

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High stability fast tracking adaptive equalizer for use with time ...

The **adaptive equalizer** is also used to construct a RF receiver. The equalizer is constructed from a plurality of feed forward equalizer (FFE) sections and a ...

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relax optical **transmitter** requirements. Vle equalizer presented here is ... trol (AGC), processed through a feed-forward equalizer (FFE) and applied ...

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[PDF] A low-power, reconfigurable adaptive equalizer architecture ...

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lated to the distance between the **transmitter** and receiver ... forward equalizer (FFE), and the complex-valued feedback. equalizer (FBE). ...

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Transmitter De-emphasis and Receive Equalization (FFE/DFE) enhance the **Adaptive equalizer** are included in other Multi-Gbps standards (OIF and IEEE). ...

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Feed forward equalizer invention

More particularly, the **adaptive equalizer** may comprise a least mean square (LMS)

adaptive tapped delay-line FFE. An FFE may be utilized in the front-end of ...

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Segmented equalizer invention

2 is shown to perform filter function by FFE filter 312 using sample inputs ... [0021] The performance requirement of an **adaptive equalizer** depends on the ...

www.freshpatents.com/Segmented-equalizer-dt20070531ptan20070121717.php - 30k -

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SIGNAL PROCESSING DEVICE CAPABLE OF ENHANCING CORRECTNESS OF ...

The device of claim 1 wherein the passband **adaptive equalizer** comprises an adder coupled respectively with the FFE and the FBE for outputting the equalized ...

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High stability fast tracking adaptive equalizer for use with time ...

The **adaptive equalizer** according to claim 1, wherein the tap coefficients of each FFE section are adapted in accordance with the cross correlation between ...

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Equalizer (FFE) in the **transmitter** (with. feedbacks from the receiver), while sim- been shown that an **adaptive equalizer** ...

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FRONT END INTERFACE FOR DATA RECEIVER - Patent 20060159200

The DFE 13 operates as a deserializer as well as an **adaptive equalizer**. ... information for updating **FFE** coefficients of the **transmitter** from the receiver ...

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High speed data service via satellite modem termination system and ...

an **adaptive equalizer** coupled to the QAM demodulator for characterizing a RF DC-Offset correction units 1416a and b correct any **DC voltage offset** at ...

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Front end interface for data receiver invention

The prior art receiver complex 10 may be operated in conjunction with a **transmitter** having a feed forward equalizer (**FFE**), in which the tap coefficients ...

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EP1398891 Broadcom european software patent - High speed data ...

An **adaptive equalizer** & Ingress cancellation unit 618 characterizes the RF DC-Offset correction units 1416a and b correct any **DC voltage offset** at the ...

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- ☒ 1. High speed data service via satellite modem termination system and satellite modems
Lin, Dorothy / Brescia, Rocco J. / Chien, Jen-chieh / Gin, Alan / Dale, Mark / Fanous, Adel F. (Broadcom Corporation ; Lin, Dorothy D. ; Chien, Jen-chieh ; Gin, Alan ; Brescia, Rocco J., Jr. ; Fanous, Adel F. ; Dale, Mark R.), EUROPEAN PATENT APPLICATION, Mar 2004

patno:EP1398891

...that the CMTS provide a single carrier **transmitter** for each downstream (i.e. from head...channel is thus characterized by many **transmitters** (CMs) and one receiver (the CMTS). Time...includes not only a receiver but also a **transmitter**. While the newer satellite communication...


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- ☒ 2. High speed data service via satellite modem termination system and satellite modems
Lin, Dorothy D. / Brescia, Rocco J. / Chien, Jen-Chieh / Fanous, Adel F. / Gin, Alan / Dale, Mark R., UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, Jun 2004

patno:US20040105403

...preamble for signal acquisition. An **adaptive equalizer** & Ingress cancellation unit...QAM demodulator 610 and the **adaptive equalizer** & Ingress cancellation unit...a turbo decoder by a 12-tap **FFE** unit 716. The FEC decoder includes...

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☐ 1. Adaptive equalizer

Upton, Eric L. (NORTHROP GRUMMAN CORPORATION), EUROPEAN PATENT APPLICATION, Nov 2004

patno:EP1475934

...equalizer employing a feed forward equalizer (**FFE**) processor, a decision feedback equalizer...weight values applied to weight taps in the **FFE** processor and the DFE processor. (2. Discussion...cable several thousand miles between a **transmitter** and a receiver, the distortion may be...sometimes called a feed forward equalizer (**FFE**) processor, and an infinite impulse response...

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☐ 2. TIMING RECOVERY FOR A HIGH SPEED DIGITAL DATA COMMUNICATION SYSTEM BASED ON ADAPTIVE EQUALIZER IMPULSE RESPONSE CHARACTERISTICS

JONSSON, Ragnar / OLAFSSON, Sverrir / BJARNASON, Elias (Conexant Systems, Inc.), EUROPEAN PATENT, Jul 2001

patno:EP1118183

...associated with the **transmitter**. In systems having...associated with an **adaptive equalizer** structure employed...structure 108 is an **adaptive equalizer** structure having...feedforward equalizer (**FFE**), a decision feedback...transmitted by a **transmitter** located at the...configured as an **adaptive equalizer** structure. Echo...

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☐ 3. High stability fast tracking adaptive equalizer for use with time varying communication channels

Sommer, Naftali / Shalvi, Ofir / Segal, Mordechai (Texas Instruments Incorporated), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Apr 2002

patno:US6366613

...DTV Digital Television **FFE** Feed Forward Equalizer...equalization, either **FFE** or DFE, in the receiver...then equalized by the **adaptive equalizer** unit 16 that functions...and colored noise. The **adaptive equalizer** unit 16 also functions...

Re
us
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clo
cor
de
du
hill
in-
mc
mc
ph
ph
pik
sof
su
tra
Or
Al

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- ☐ 4. [High stability fast tracking adaptive equalizer for use with time varying communication channels](#)

Sommer, Naftali / Shalvi, Ofir / Segal, Mordechai, UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, Nov 2001

patno:US20010043650

...equalization, either **FFE** or **DFE**, in the receiver...then equalized by the **adaptive equalizer** unit 16 that functions...and colored noise. The **adaptive equalizer** unit 16 also functions...feedforward equalizer (**FFE**) sections 32 and a plurality...

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- ☐ 5. [High stability fast tracking adaptive equalizer for use with time varying communication channels](#)

Sommer, Naftali / Shalvi, Ofir / Segal, Mordechai (Texas Instruments Incorporated), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, May 2001

patno:US6240133

...DTV Digital Television **FFE** Feed Forward Equalizer...equalization, either **FFE** or **DFE**, in the receiver...then equalized by the **adaptive equalizer** unit 16 that functions...and colored noise. The **adaptive equalizer** unit 16 also functions...

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- ☐ 6. [TIMING RECOVERY FOR A HIGH SPEED DIGITAL DATA COMMUNICATION SYSTEM BASED ON ADAPTIVE EQUALIZER IMPULSE RESPONSE CHARACTERISTICS](#)

JONSSON, Ragnar / OLAFSSON, Sverrir / BJARNASON, Elias (CONEXANT SYSTEMS, INC.), PATENT COOPERATION TREATY APPLICATION, Apr 2000

patno:WO0019655

...SYSTEM BASED ON **ADAPTIVE EQUALIZER** IMPULSE RESPONSE...associated with the **transmitter**. In systems...associated with an **adaptive equalizer** structure...transmitted by a **transmitter** located at...configured as an **adaptive equalizer** structure...

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- ☐ 7. [Adaptive equalizer matched filter error metric concept and apparatus](#)

Upton, Eric L. (Northrop Grumman Corporation), UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, Nov 2004

patno:US20040223544

...embodiment of the present invention, employing an **FFE** processor 12 and a **DFE** processor 14. The **FFE** processor 12 receives a distorted RF signal. In...from the processor 18. The operation of **DFE** and **FFE** processors for this purpose is well understood...


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- ☐ 8. [Timing recovery for a high speed digital data communication system based on adaptive equalizer impulse response characteristics](#)

Jonsson, Ragnar / Olafsson, Sverrir / Bjarnason, Elias (Conexant Systems, Inc.), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Jul 2002

patno:US6414990


...100 also includes an **adaptive equalizer** structure 108, which...structure 108 is an **adaptive equalizer** structure having adjustable...feedforward equalizer (FFE), a decision feedback...signal transmitted by a **transmitter** located at the same...be configured as an **adaptive equalizer** structure. Echo estimate...

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☐ 9. Gain adaptive equalizer

Jones, Keith R. / Trevino, Gilberto Isaac Sada / Jones, William W., UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, Jan 2004
patno:US20040005001


...diagram of one example embodiment of an **adaptive equalizer**. As shown an input 200 connects to...embodiment the equalizer 310 comprises an **adaptive equalizer**. In one embodiment the equalizer...and ☐ comprise tap values for an **adaptive equalizer** having two or more taps. The values...

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☐ 10. ADAPTIVE EQUALIZERS AND METHODS FOR CARRYING OUT EQUALIZATION WITH A PRECODED TRANSMITTER

LING, Stanley K. / AN, Ping / TAKATORI, Hiroshi (LEVEL ONE COMMUNICATIONS, INC.), PATENT COOPERATION TREATY APPLICATION, Sep 1998
patno:WO9839871

...receiver 312 just the **FFE** 362 are needed, since the output of the **FFE** should be ISI free...coefficients at the **transmitter** are locked in and thus...be dealt with in the **FFE** by continuous adaptation...are now used in the **transmitter**, where the decision...there is a need for an **adaptive equalizer** for adapting a precoder...

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☐ 11. Adaptive equalizers and methods for carrying out equalization with a precoded transmitter

Ling, Stanley K. / An, Ping / Takatori, Hiroshi (Level One Communications, Inc.), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Dec 2000
patno:US6167082

...acceptable performance without updating the **transmitter** coefficients. If the **FFE** 810 alone can not cancel an acceptable...the Tomlinson precoder 324 at the **transmitter** 310, and at the receiver 312 just the **FFE** 362 are needed, since the output of the **FFE** should be ISI free. However, once...328 changes, the coefficients at the **transmitter** are locked in and thus can't be changed...





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☐ 12. SINGLE CLOCK RECEIVER

GREISS, Israel / BUBLIL, Baruch / JACOB, Jeffrey / TAICH, Dimitry (MYSTICOM LTD.), PATENT COOPERATION TREATY APPLICATION, Jun 2003
patno:WO03053019

...includes 10 multiple analog **transmitters** and multiple analog receivers...phase-locked loop oscillator. The **transmitters** and receivers are coupled...for the 25 receivers and **transmitters**, there is a substantial...feed forward equalizer (FFE). Each **FFE** drives a "slicer...apparatus includes a forward **adaptive equalizer** that is implemented to remove...

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- ☐ **13. Method and apparatus for implementing a channel correction in a digital data link**
Laamanen, Heikki / Vaananen, Janne, *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION*, Feb 2003
patno:US20030035495
...linear equalizer (**FFE**) and the DFE are adjusted...replacement of an **adaptive equalizer** by an entirely fixed...path, as well as a **transmitter** according to claim...the receiver, the **transmitter** or partially in both...the use of a linear **adaptive equalizer** (**FFE**). However, a linear...
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- ☐ **14. Apparatus and method for digital data transmission**
Rakib, Selim Shlomo / Azenkot, Yehuda (Terayon Communication Systems, Inc.), *EUROPEAN PATENT APPLICATION*, Sep 2001
patno:EP1130918
...a physically distributed system of **transmitters**. Of course all nonbaseband CDMA systems...into the spreading circuitry of the **transmitter**, but also exactly in phase therewith...Further, in CDMA systems with multiple **transmitters** which are physically distributed each...
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- ☐ **15. Head end receiver for digital data delivery systems using mixed mode SCDMA and TDMA multiplexing**
Azenkot, Yehuda / Lind, Paul Alan / Grimwood, Michael / Rakib, Selim Shlomo (Terayon Communication Systems, Inc.), *EUROPEAN PATENT APPLICATION*, Aug 2002
patno:EP1235402
...interference and group delay. The cable modem **transmitters** in such a system do some signal processing...processing and multiplexing that the **transmitters** did. The signal processing function...This gap is used by the cable modem **transmitters** (hereafter the CMs) to perform DOCSIS...
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- ☐ **16. Fast skew detector**
Weiss, Rami / Bublii, Baruch / Greiss, Israel, *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION*, Jul 2003
patno:US20030142772
...31 (in the corresponding **transmitter** module 40) and VGA 25 (in...**equalizer** or as a feed forward **adaptive equalizer** (**FFE**). A block 186 conceptually...described below. Operating as an **FFE** equalizer, paths "1" are...for the non-corresponding **transmitters** 40 of transceiver 20) and...
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- ☐ **17. Combined feed forward and blind equalizer**
Greiss, Israel / Bublii, Baruch / Jacob, Jeffrey / Taich, Dimitry, *UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION*, Jul 2003
patno:US20030138039
...31 (in the corresponding **transmitter** module 40) and VGA 25 (in...**equalizer** or as a feed forward **adaptive equalizer** (**FFE**). A block 186 conceptually...described below. Operating as an **FFE** equalizer, paths "1" are...for the non-corresponding **transmitters** 40 of transceiver 20) and...

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☐ **18.** [Echo and near end cross talk reduction](#)

Greiss, Israel / Bublil, Baruch / Jacob, Jeffrey / Taich, Dimitry, UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, Jul 2003

patno:US20030138038

...31 (in the corresponding **transmitter** module 40) and VGA 25 (in...**equalizer** or as a feed forward **adaptive equalizer (FFE)**). A block 186 conceptually...described below. Operating as an **FFE** equalizer, paths "1" are...for the non-corresponding **transmitters** 40 of transceiver 20) and...

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☐ **19.** [Frequency and timing recovery](#)

Greiss, Israel / Bublil, Baruch / Jacob, Jeffrey / Taich, Dimitry, UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION, Sep 2003

patno:US20030182619

...31 (in the corresponding **transmitter** module 40) and VGA 25 (in...**equalizer** or as a feed forward **adaptive equalizer (FFE)**). A block 186 conceptually...described below. Operating as an **FFE** equalizer, paths "1" are...for the non-corresponding **transmitters** 40 of transceiver 20) and...

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☐ **20.** [Apparatus and method for digital data transmission](#)

Rakib, Selim Shlomo / Azenkot, Yehuda (Terayon Communication Systems, Inc.), EUROPEAN PATENT APPLICATION, Sep 2001

patno:EP1130919

...a physically distributed system of **transmitters**. Of course all nonbaseband COMA systems...into the spreading circuitry of the **transmitter**, but also exactly in phase therewith...Further, in CDMA systems with multiple **transmitters** which are physically distributed each...

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 B. D.; Beakes, M. P.; Chung, A.; Beukema, T. J.; Pepeljugoski, P. K.; Shan, L.;
 Gowda, S.; Friedman, D. J.;
Solid-State Circuits, IEEE Journal of
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 Beukema, T.; Sorna, M.; Selander, K.; Zier, S.; Ji, B.L.; Murfet, P.; Mason, J.; F
 Ainspan, H.; Parker, B.; Beakes, M.;
Solid-State Circuits, IEEE Journal of
 Volume 40, Issue 12, Dec. 2005 Page(s):2633 - 2645
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- ☐ 3. **A 6.25-Gb/s binary transceiver in 0.13-/spl mu/m CMOS for serial data tra**
across high loss legacy backplane channels
 Payne, R.; Landman, P.; Bhakta, B.; Ramaswamy, S.; Song Wu; Powers, J.D.;
 Yee, A.-L.; Gu, R.; Lin Wu; Yiqun Xie; Parthasarathy, B.; Brouse, K.; Mohamm
 K.; Gupta, V.; Dyson, L.; Wai Lee;
Solid-State Circuits, IEEE Journal of
 Volume 40, Issue 12, Dec. 2005 Page(s):2646 - 2657
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Digital Object Identifier 10.1109/JSSC.2005.856584
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- ☐ 2. **A 6.4Gb/s CMOS SerDes core with feedforward and decision-feedback equalization**
Sorna, M.; Beukema, T.; Selander, K.; Zier, S.; Ji, B.; Murfet, P.; Mason, J.; Fainman, H.; Parker, B.;
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Rylov, S.; Reynolds, S.; Storaska, D.; Floyd, B.; Kapur, M.; Zwick, T.; Gowda, ;
Solid-State Circuits, IEEE Journal of
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Digital Object Identifier 10.1109/JSSC.2005.848177
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- ☐ 3. **40-Gb/s circuits built from a 120-GHz f/sub T/ SiGe technology**
Freeman, G.; Meghelli, M.; Kwark, Y.; Zier, S.; Rylyakov, A.; Sorna, M.A.; Tanj O.M.; Walter, K.; Jae-Sung Rieh; Jagannathan, B.; Joseph, A.; Subbanna, S.;
Solid-State Circuits, IEEE Journal of
Volume 37, Issue 9, Sep 2002 Page(s):1106 - 1114
Digital Object Identifier 10.1109/JSSC.2002.801170
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- ☐ 4. **A 0.18-/spl mu/m SiGe BiCMOS receiver and transmitter chipset for SONE transmission systems**
Meghelli, M.; Rylyakov, A.V.; Zier, S.J.; Sorna, M.; Friedman, D.;
Solid-State Circuits, IEEE Journal of
Volume 38, Issue 12, Dec 2003 Page(s):2147 - 2154
Digital Object Identifier 10.1109/JSSC.2003.818571
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- ☐ 5. **A 0.18 /spl mu/m SiGe BiCMOS receiver and transmitter chipset for SONE transmission systems**
Meghelli, M.; Rylyakov, A.V.; Zier, S.J.; Sorna, M.; Friedman, D.;

Solid-State Circuits Conference, 2003. Digest of Technical Papers. ISSCC, 2003. International

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Variable gain amplifier - Patent # 7250814 - PatentGenius

A method of varying the gain of an amplifier and an amplifier array are provided. The amplifier array includes two or more amplifier stages (201, ...
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The **peaking amplifier** path includes a peaking a... 147, US6259321, CMOS **variable gain amplifier** and control method therefor A CMOS high frequency **variable** ...
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High gain, high efficiency power amplifier invention

Ideally, this would result in a **peaking amplifier** 14 with 6 dB more gain than that achieved ... **Variable gain amplifier** and **variable gain amplifier** module ...
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High speed multi-mode receiver invention

In a second mode, the **variable gain amplifier** is operable to amplify the signal with fixed gain and the **peaking amplifier** is operable to amplify the signal ...
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The receiver features a **variable-gain amplifier** (VGA), DFE, and ... The VGA drives a second-stage **peaking amplifier** that is used to ...
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Peaking control for wideband laser driver applications - US Patent ...

Variable gain amplifier Issued on: December 19, 2000 ... comprises a laser modulator amplifier and said second amplifier comprises a **peaking amplifier**. ...
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The receiver features a **variable-gain amplifier** (VGA) with gain ranging from -6 to +10 dB in ~ 1 dB steps, an analog **peaking amplifier**, and a continuously ...
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High efficiency amplifier

The output of the **peaking amplifier** electrically acts like a current source and ... Under a low input signal level drive condition, the **peaking amplifier** is ...
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peaking amplifier is adjusted to follow the dynamic envelope of CDMA signal of peaking PA's gate bias, we designed a base band **variable gain amplifier** ...

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High speed multi-mode receiver invention

[0003] A **DFE** is used at a receiver to counter the effects of distortion present in a unit including a **variable gain amplifier** and a **peaking amplifier**. ...

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High Speed Multi-Mode Receiver - Patent 20060067440

In a first mode, the **variable gain amplifier** is operable to amplify a In one embodiment, in **DFE** mode, the **peaking amplifier** 320 operates with constant ...

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peaking amplifier followed by a 5-tap **DFE**, enables operation on ISI channels with over 30dB loss at **Variable-Gain Amplifier**, Video Graphics Array ...

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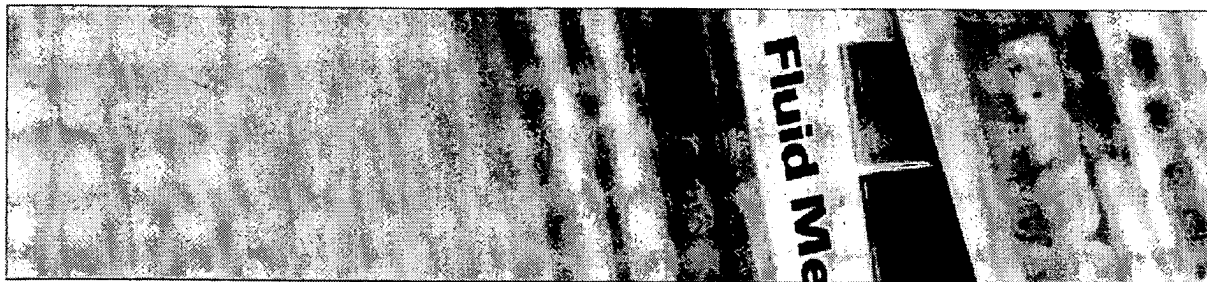
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A 6.4-Gb/s CMOS serdes core with feed-forward and decision-feedback equalization

Auteur(s) / Author(s)

BEUKEMA Troy ⁽¹⁾ ; SOMA Michael ⁽²⁾ ; SELANDER Karl ⁽²⁾ ; ZIER Steven ⁽²⁾ ; JI Brian L. ⁽²⁾ ; MURFET Phil ⁽³⁾ ; MASON James ⁽³⁾ ; RHEE Woogeun ⁽¹⁾ ; AINSPAN Herschel ⁽¹⁾ ; PARKER Benjamin ⁽¹⁾ ; BEAKES Michael ⁽¹⁾ ;

Affiliation(s) du ou des auteurs / Author(s) Affiliation(s)

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⁽²⁾ IBM Microelectronics, East Fishkill, NY 12533, ETATS-UNIS

⁽³⁾ IBM U.K, Hursley, Winchester SO21 2JN, ROYAUME-UNI

Résumé / Abstract

A 4.9-6.4-Gb/s two-level SerDes ASIC I/O core employing a four-tap feed-forward equalizer (FFE) in the transmitter and a five-tap decision-feedback equalizer (DFE) in the receiver has been designed in 0.13- μ m CMOS. The transmitter features a total jitter (TJ) of 35 ps p-p at 10⁻¹² bit error rate (BER) and can output up to 1200 mVppd into a 100- Ω differential load. Low jitter is achieved through the use of an LC-tank-based VCO/PLL system that achieves a typical random jitter of 0.6 ps over a phase noise integration range from 6 MHz to 3.2 GHz. The receiver features a variable-gain amplifier (VGA) with gain ranging from -6 to +10 dB in ~1 dB steps, an analog peaking amplifier, and a continuously adapted DFE-based data slicer that uses a hybrid speculative/dynamic feedback architecture optimized for high-speed operation. The receiver system is designed to operate with a signal level ranging from 50 to 1200 mVppd. Error-free operation of the system has been demonstrated on lossy transmission line channels with over 32-dB loss at the Nyquist (1/2 Bd rate) frequency. The Tx/Rx pair with amortized PLL power consumes 290 mW of power from a 1.2-V supply while driving 600 mVppd and uses a die area of 0.79 mm².

Revue / Journal Title

IEEE journal of solid-state circuits (IEEE j. solid-state circuits) ISSN 0018-9200 CODEN IJSCBC

Source / Source

2005, vol. 40, n°12, pp. 2633-2645 [13 page(s) (article)] (15 ref.)

Langue / Language

Anglais

Editeur / Publisher

Institute of Electrical and Electronics Engineers, New York, NY, ETATS-UNIS (1966) (Revue)

Mots-clés anglais / English Keywords

Integrated circuit ; Die ; Transmission loss ; Lossy line ; Transmission line ; System design ; Optimization ; Feedback regulation ; Gain ; Variable gain amplifier ; Phase noise ; Phase locked loop ; Voltage controlled oscillator ; Bit error rate ; Jitter ; Receiver ; Transceiver ; Custom circuit ; Decision feedback equalizers ; Complementary MOS technology ;

Mots-clés français / French Keywords

Circuit intégré ; Matrice formage ; Perte transmission ; Ligne avec perte ; Ligne transmission ; Conception système ; Optimisation ; Rétroaction ; Gain ; Amplificateur gain variable ; Bruit phase ; Boucle verrouillage phase ; Oscillateur commande tension ; Taux erreur bit ; Gigue ; Récepteur ; Emetteur récepteur ; Circuit à la demande ; Egaliseur récursif ; Technologie MOS complémentaire ;

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LAYCAK JOHN FRANCIS / UPHOFF RUSSEL LESLIE (JONES & LAUGHLIN STEEL CORP), UNITED KINGDOM PATENT APPLICATION, Dec 1964

patno:GB0978573

...3 is passed through a **variable gain amplifier** to a diode clipping and...44 is then fed to the **variable gain amplifier** 40 to control its output...amplification are achieved 95 in **peaking amplifier** 416 whose output (wave...

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- ☐ 2. Inspection and control system
LAYCAK JOHN F / UPHOFF RUSSEL L, UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Feb 1962

patno:US3020034


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MCCREANOR RICHARD ALBIN / UPHOFF RUSSEL LESLIE / LAYCAK JOHN FRANCIS / LIBENSCHER RUDOLF STEVEN (JONES & LAUGHLIN STEEL CORP), UNITED KINGDOM PATENT APPLICATION, Dec 1964

patno:GB0978572

PATENT SPECIFICATION DRAWINGS ATTACHED 978,572 Inventors: RICHARD ALBIN MCCREANOR, RUSSEL LESLIE TUPHOFF, JOHN FRANCIS LAYCAK, and RUDOLF STEVEN LIBENSCHER. Date of Application and filing Complete Specification: Nov 17, 1961. No 41334/61. Complete Specification Published: Dec 23, 1964. © Crown

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☐ 4. Inspection and control system

MCCREANOR RICHARD A / LAYCAK JOHN F / UPHOFF RUSSEL L / LIBENSCHKE RUDOLPH S, UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Feb 1962

patno:US3020033

...O in FIG. 3 is passed through a **variable gain amplifier** 122 to a clipper 124. Wave form...of circuit 126 is then fed to the **variable gain amplifier** 122 to control its output level...154 to a phase inverter 156 and **peaking amplifier** 158 only during the time duration...


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☐ 5. Electronic surface inspection system

LAYCAK JOHN F, UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Jan 1962

patno:US3019346

...Included in this circuit is a **variable gain amplifier** 98 which is connected...102 is thus fed to the **variable gain amplifier** 93 to control its output...amplification is achieved in **peaking amplifier** 184 whose output is then...


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☐ 6. Improvements in or relating to an electronic surface inspection system

LAYCAK JOHN FRANCIS (JOHNES & LAUGHLIN STEEL CORP), UNITED KINGDOM PATENT APPLICATION, Nov 1964

patno:GB0974335

Index at acceptance: PATENT SPECIFICATION DRAWINGS ATTACHED Inventor: JOHN FRANCIS LAYCAK 974,335 Date of Application and filing Complete Specification Oct 23, 1961. H a ' No 37921/61. Complete Specification Published Nov 4, 1964. ©g) Crown Copyright 1964. -G 4 H(I X, 3 E, 5 D, 6 B, 6 D, WA 3, 7 B,


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☐ 7. Quantized pulse modulated nonsynchronous clipped speech multi-channel coded communication system

Miller, Ralph H. / Dyer, William W. / Waterbury, John A. / Carlson, Wayland A. / Eastman, Richard O. (The United States of America as represented by the Secretary of the Navy), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Jan 1978

patno:US4070550

1. A quantized pulse-modulated nonsynchronous clipped speech multi-channel oded communication system comprising transmitter terminals and receiver terminals; said transmitter terminals comprising a plurality of channel units, a timing unit, and a ...

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